

Prusa Resin - High Tenacity

Technical Data Sheet

Name	Prusa Resin - High Tenacity
Usage	3D printing
Supplier	Prusa Research a.s., Prague, Czech Republic

Print Settings

Layer [mm]	Time [s]
0,025	5
0,035	-
0,05	7
0,1	-

First layer - 30 s

Recommended after-print curing settings

Drying - 3 minutes at 35 °C

Curing - 15 minutes at 35 °C

Mechanical properties

Property / Print direction	Uncured XY	Cured XY	Method
Tensile strength [MPa]	29±4	47,8±0,8	ISO 527
Elongation at break [%]	48±18	16±5	ISO 527-1
Tensile Modulus [GPa]	0,83±0,05	1,57±0,05	ISO 527
Impact strength - Charpy unnotched [kJ/m2]	93±12	73,5±4,0	ISO 179
Impact strength - Charpy notched [kJ/m2]	99,4±2,1	92,5±9,8	ISO 179

Samples printed in XY direction according to recommended print settings in PrusaSlicer.

Basic material properties

Property	Uncured	Cured	Method
Heat deflection temperature [°C] (0,45 MPa)	40	45	ISO 75
Heat deflection temperature [°C] (1,8 MPa)	37,5	40	ISO 75
Hardness Shore D	85	87	ISO 868
Viscosity (25°C)	400-450	N/A	N/A

*) 15 minutes post-curing

Basic safety information

- This material is not suitable for contact with food, drinks, medical use or usage on or in human body. Always read the safety data sheet before using this material.
- Resins are considered to be hazardous substances and they need to be disposed using dedicated waste containers.
- Do not throw resin bottles (empty or full) into regular waste. Do not pour liquid resin into drains or sewage.

Usage instructions

- Shake the bottle well before use.
- Store away from sunlight at temperatures between 10-25 °C.
- Use protective equipment when handling resins.
- Do not pour liquid resin into drains or sewage. Empty bottles and unused resin should be disposed using a dedicated waste container. See your country's laws on disposal of dangerous liquids.